

H 1243 CAP-CASUL

**Process for producing calcium compounds containing  
water of crystallisation**

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**Abstract**

The invention relates to the production of calcium compounds containing water of crystallisation by means of a chemical reaction between an aqueous alkaline

10 sodium aluminate solution and solid or dissolved or suspended calcium (hydr)-oxide in the presence of carbon dioxide or carbonate; and to the use of these compounds. The resulting precipitate is separated by sedimentation, dehydratation, drying and/or calcination and/or grinding or suspending the resulting filter cake and reacted with at least one mineral acid and/or at least one salt of the  
15 same. The resulting precipitate, which contains water of crystallisation, is separated by sedimentation, dehydration, drying and/or grinding.

The resulting compounds can be used as fillers or as extra white pigments for producing and surface-treating paper, cardboard or card, for producing paints

20 and lacquers, as a flame-retardant filler for fire-protecting construction materials and as a filler for producing plasterboards or building slabs or as a hydraulically active additive for producing expansive cements, expansive plasters and screeds and as a swelling component for explosion-protected explosives.

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